

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:

**June  
2009**

**Edmund G. Brown Jr.**  
Governor  
**State of California**

**John Laird**  
Secretary for Resources  
**The Resources Agency**

**Mark Cowin**  
Director  
**Department of Water Resources**

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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**MARK COWIN, Director**

Department of Water Resources  
**SUSAN SIMS, Chief Deputy Director**

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The organization shown above represents staff and positions relevant to this report as of publication date on May 2012. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following activities highlight actions that affected State Water Project operations during June 2009.

Statewide precipitation was about 85 percent of average for the water-year through June 30. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at [http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html)

Snowpack and Statewide Runoff data is compiled four times annually, for the months of January, February, March, and April by the California Department of Water Resources in Bulletin 120. No Snowpack or Statewide Runoff data is available in June. Cumulative Unimpaired runoff for the 2008-09 water year for the Sacramento River Region was 11.9 maf, 69 percent of average, compared to 9.3 maf at this time in 2008.

Statewide reservoir storage was 85 percent of average to date. Total storage in major SWP reservoirs at the end of June 2009 was about 3.34 maf compared to 2.64 maf at this time in 2008. On June 30, 2009, end-of-month storage at Lake Oroville was about 2.06 maf, as compared to 1.52 maf at this time in 2008. The State share of San Luis Reservoir's end-of-month storage was about 350 taf, as compared with 517 taf at this time in 2008. The combined storage in SWP's southern reservoirs was about 553 taf, compared with about 598 taf at this time in 2008.

SWP water deliveries to date through June 2009 were about 1.02 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2008 were 1.43 maf.

On May 31, by mutual agreement between the United States Bureau of Reclamation and the California Department of Water Resources in accordance with Article 6(h) of the COA, "Balanced" conditions were declared in the Delta and remained "Balanced" throughout the end of calendar year 2009. "Balanced" conditions exist when the DWR and the USBR agree that releases from upstream reservoirs plus unregulated flow approximately equal the water supply needed to meet Sacramento Valley in-basin uses, plus exports.

On June 18, Oroville Field Division reported removal of one shutter from Hyatt Intake #1 for temperature control. This action brought Intake #1 down to 6 shutters; while Intake #2 remained at 7 shutters.

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**June 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
May 31	5002.24	22,788									
1	5002.19	22,741	-47	20	0	0	10	8	38	14	
2	5002.20	22,750	9	20	0	0	10	8	38	43	
3	5002.22	22,769	19	20	0	0	12	8	40	50	
4	5002.27	22,816	47	20	0	0	17	8	45	69	
5	5002.34	22,881	65	20	0	0	24	8	52	85	
6	5002.36	22,900	19	20	0	0	27	8	55	65	
7	5002.37	22,909	9	20	0	0	28	8	56	61	
8	5002.33	22,872	-37	20	0	0	23	8	51	32	
9	5002.29	22,834	-38	20	0	0	19	8	47	28	
10	5002.27	22,816	-18	20	0	0	17	8	45	36	
11	5002.25	22,797	-19	20	0	0	15	8	43	33	
12	5002.21	22,760	-37	20	0	0	11	8	39	20	
13	5002.19	22,741	-19	20	0	0	10	8	38	28	
14	5002.18	22,732	-9	20	0	0	9	8	37	32	
15	5002.17	22,722	-10	20	0	0	8	8	36	31	
16	5002.14	22,694	-28	20	0	0	6	8	34	20	
17	5002.13	22,685	-9	20	0	0	5	7	32	27	
18	5002.10	22,657	-28	20	0	0	3	7	30	16	
19	5002.07	22,629	-28	20	0	0	2	7	29	15	
20	5002.05	22,611	-18	20	0	0	1	7	28	19	
21	5002.02	22,583	-28	20	0	0	1	7	28	13	
22	5001.99	22,555	-28	20	0	0	0	7	27	13	
23	5001.97	22,536	-19	20	0	0	0	7	27	17	
24	5001.93	22,499	-37	20	0	0	0	7	27	8	
25	5001.91	22,481	-18	20	0	0	0	7	27	18	
26	5001.85	22,425	-56	20	0	0	0	7	27	-1	
27	5001.81	22,388	-37	20	0	0	0	7	27	8	
28	5001.77	22,351	-37	20	0	0	0	7	27	8	
29	5001.72	22,305	-46	20	0	0	0	7	27	4	
30	5001.70	22,287	-18	20	0	0	0	7	27	18	
Total cfs-days				---	600	0	0	258	226	1,083	
Total ac-ft				-501	1,190	0	0	511	448	2,149	
										1,648	

**Table 2. Frenchman Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**June 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs							Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow			
				Stream-flow Maint.	1/ Water Supply Contract	Water Right						
May 31	5566.34	27,490										
1	5566.26	27,409	-81	1	36	0	0	11	48	7		
2	5566.21	27,358	-51	1	36	0	0	11	48	22		
3	5566.14	27,287	-71	1	33	0	0	11	45	9		
4	5566.09	27,236	-51	1	30	0	0	11	42	16		
5	5566.19	27,338	102	1	13	0	0	11	25	76		
6	5566.21	27,358	20	1	2	0	0	11	14	24		
7	5566.20	27,348	-10	1	2	0	0	11	14	9		
8	5566.18	27,328	-20	1	2	0	0	11	14	4		
9	5566.16	27,307	-21	2	1	0	0	11	14	3		
10	5566.16	27,307	0	2	1	0	0	11	14	14		
11	5566.13	27,277	-30	2	11	0	0	11	24	9		
12	5566.10	27,247	-30	2	17	0	0	11	30	15		
13	5566.08	27,226	-21	2	17	0	0	10	29	18		
14	5566.02	27,166	-60	2	17	0	0	10	29	-1		
15	5565.98	27,125	-41	2	17	0	0	10	29	8		
16	5565.94	27,085	-40	2	17	0	0	10	29	9		
17	5565.90	27,045	-40	2	17	0	0	10	29	9		
18	5565.84	26,984	-61	2	17	0	0	10	29	-2		
19	5565.79	26,934	-50	2	17	0	0	10	29	4		
20	5565.75	26,894	-40	2	17	0	0	10	29	9		
21	5565.71	26,854	-40	2	17	0	0	10	29	9		
22	5565.64	26,783	-71	1	20	0	0	10	31	-5		
23	5565.55	26,693	-90	1	31	0	0	10	42	-3		
24	5565.46	26,603	-90	1	37	0	0	10	48	3		
25	5565.37	26,514	-89	1	31	0	0	10	42	-3		
26	5565.31	26,454	-60	1	30	0	0	10	41	11		
27	5565.20	26,344	-110	1	31	0	0	10	42	-13		
28	5565.10	26,245	-99	1	31	0	0	10	42	-8		
29	5565.00	26,146	-99	1	41	0	0	10	52	2		
30	5564.87	26,018	-128	1	47	0	0	10	58	-7		
Total cfs-days				---	43	636	0	0	312	991	249	
Total ac-ft				-1,472	85	1,262	0	0	619	1,966	494	

1/ Last Chance Creek Water District.

**Table 3. Lake Davis**

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**June 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
May 31	5765.52	50,850									
1	5765.49	50,759	-91	8	2	0.7	0	24	35	-11	
2	5765.51	50,828	69	8	2	0.7	0	24	35	69	
3	5765.58	51,032	204	8	2	0.7	0	24	35	138	
4	5765.59	51,062	30	8	2	0.7	0	24	35	50	
5	5765.60	51,093	31	8	2	0.7	0	24	35	50	
6	5765.60	51,093	0	7	3	0.7	0	24	35	35	
7	5765.58	51,032	-61	7	3	0.7	0	24	35	4	
8	5765.56	50,971	-61	7	3	0.7	0	24	35	4	
9	5765.55	50,941	-30	7	3	0.7	0	24	35	20	
10	5765.53	50,880	-61	7	3	0.7	0	24	35	4	
11	5765.51	50,820	-60	6	4	0.7	0	24	35	4	
12	5765.49	50,759	-61	7	3	0.7	0	24	35	4	
13	5765.48	50,729	-30	7	3	0.7	0	24	35	20	
14	5765.47	50,699	-30	7	3	0.7	0	24	35	20	
15	5765.45	50,638	-61	7	3	0.8	0	24	35	4	
16	5765.43	50,578	-60	7	3	0.9	0	24	35	5	
17	5765.40	50,487	-91	7	3	0.9	0	24	35	-11	
18	5765.37	50,397	-90	7	3	0.9	0	23	34	-11	
19	5765.36	50,366	-31	7	3	0.9	0	23	34	18	
20	5765.35	50,336	-30	7	3	0.9	0	23	34	19	
21	5765.33	50,276	-60	7	3	0.9	0	23	34	4	
22	5765.28	50,126	-150	7	3	0.9	0	23	34	-42	
23	5765.26	50,065	-61	7	3	0.9	0	23	34	3	
24	5765.23	49,975	-90	7	4	0.9	0	23	34	-11	
25	5765.21	49,916	-59	7	3	0.9	0	23	34	4	
26	5765.19	49,856	-60	7	3	0.9	0	23	34	4	
27	5765.14	49,706	-150	7	3	0.9	0	23	34	-42	
28	5765.10	49,587	-119	7	3	0.9	0	23	34	-26	
29	5765.07	49,497	-90	7	3	0.9	0	23	34	-11	
30	5765.03	49,378	-119	7	3	0.9	0	23	34	-26	
Total cfs-days				---	210	90	24	0	707	1,031	
Total ac-ft				-1,472	417	178	48	0	1,403	2,046	
										574	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli)

2/ Includes 48 AF to Grizzly Ranch and 0 AF to Plumas County.

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

**June 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
May 31	807.88	2,281,904										
	1	807.84	2,281,440	-464	6,556	26	0	0	204	0	6,786	0
	2	807.14	2,273,329	-8,111	12,600	26	0	0	173	0	12,799	0
	3	806.44	2,265,238	-8,091	13,112	26	0	0	133	0	13,271	0
	4	805.69	2,256,591	-8,647	14,648	26	0	0	179	0	14,853	0
	5	805.00	2,248,656	-7,935	14,496	26	0	0	113	0	14,635	0
	6	804.38	2,241,543	-7,113	11,932	26	0	0	119	0	12,077	0
	7	803.93	2,236,390	-5,153	10,527	26	0	0	138	0	10,691	0
	8	803.23	2,228,392	-7,998	10,346	26	0	0	197	0	10,569	0
	9	802.87	2,224,285	-4,107	9,701	27	0	0	177	0	9,905	0
	10	802.25	2,217,226	-7,059	9,565	28	0	0	190	0	9,783	0
	11	801.79	2,211,999	-5,227	9,861	28	0	0	163	0	10,052	0
	12	800.96	2,202,590	-9,409	12,088	28	0	0	196	0	12,312	0
	13	800.43	2,196,596	-5,994	11,180	28	0	0	189	0	11,397	0
	14	799.98	2,191,516	-5,080	9,505	28	0	0	182	0	9,715	0
	15	799.35	2,184,418	-7,098	10,824	28	0	0	208	0	11,060	0
	16	799.44	2,185,431	1,013	3,127	28	0	0	174	0	3,329	0
	17	799.04	2,180,931	-4,500	9,314	28	0	0	200	0	9,542	0
	18	798.33	2,172,960	-7,971	10,305	28	0	0	239	0	10,572	0
	19	797.57	2,164,450	-8,510	11,741	28	0	0	302	0	12,071	0
	20	796.90	2,156,968	-7,482	10,288	28	0	0	251	0	10,567	0
	21	796.30	2,150,283	-6,685	10,348	28	0	0	224	0	10,600	0
	22	795.50	2,141,392	-8,891	12,939	28	0	0	249	0	13,216	0
	23	794.57	2,131,089	-10,303	13,109	28	0	0	262	0	13,399	0
	24	793.77	2,122,254	-8,835	12,388	28	0	0	297	0	12,713	20
	25	793.17	2,115,645	-6,609	9,933	30	0	0	297	0	10,260	0
	26	792.32	2,106,308	-9,337	11,879	32	0	1	252	0	12,164	0
	27	791.56	2,097,983	-8,325	13,440	32	0	1	264	0	13,737	0
	28	790.53	2,086,739	-11,244	12,940	32	0	1	333	0	13,306	0
	29	789.10	2,071,200	-15,539	18,103	32	0	1	356	0	18,492	0
	30	787.83	2,057,468	-13,732	17,804	32	0	1	343	0	18,180	0
<b>Total</b>				<b>-224,436</b>	<b>344,599</b>	<b>845</b>	<b>0</b>	<b>5</b>	<b>6,604</b>	<b>0</b>	<b>352,053</b>	<b>20</b>
												<b>127,597</b>

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

**June 2009**

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
May 31	23,832										
1	23,924	92	6,556	278	0	5,386	0	8	1,289	0	-59
2	23,533	-391	12,600	434	0	11,312	0	8	1,289	0	-816
3	23,533	0	13,112	368	0	12,160	0	8	1,291	0	-21
4	23,874	341	14,648	405	0	13,416	0	8	1,293	0	5
5	23,896	22	14,496	470	0	13,678	0	8	1,277	0	19
6	24,172	276	11,932	470	0	10,834	0	8	1,289	0	5
7	23,713	-459	10,527	376	0	10,092	0	8	1,289	0	27
8	23,723	10	10,346	303	0	9,334	0	8	1,285	0	-12
9	23,637	-86	9,701	309	0	8,552	0	8	1,313	0	-223
10	23,817	180	9,565	314	0	8,424	0	8	1,267	0	0
11	24,199	382	9,861	328	0	8,276	0	8	1,289	0	-234
12	23,980	-219	12,088	328	0	12,404	0	8	1,263	0	1,040
13	23,940	-40	11,180	422	0	9,043	0	8	1,248	0	-1,343
14	24,711	771	9,505	422	0	7,500	0	9	1,307	0	-340
15	24,895	184	10,824	230	0	7,896	0	9	2,953	0	-12
16	24,290	-605	3,127	339	0	2,064	0	9	2,352	0	354
17	24,074	-216	9,314	318	0	7,156	0	9	1,678	0	-1,005
18	23,202	-872	10,305	345	0	10,305	0	9	1,297	0	89
19	23,998	796	11,741	357	0	10,258	0	9	1,299	0	264
20	24,222	224	10,288	259	0	9,284	0	9	1,309	0	279
21	23,940	-282	10,348	210	0	9,972	0	9	1,313	0	454
22	24,217	277	12,939	313	0	11,708	0	9	1,307	0	49
23	24,343	126	13,109	285	0	11,928	1	9	1,359	0	29
24	24,237	-106	12,388	322	0	11,526	1	9	1,319	20	59
25	24,221	-16	9,933	353	0	9,118	1	9	1,369	0	195
26	24,337	116	11,879	407	0	9,080	1	9	3,255	0	175
27	24,548	211	13,440	465	0	11,432	1	9	2,293	0	41
28	23,951	-597	12,940	465	0	12,578	1	9	1,531	0	117
29	23,699	-252	18,103	465	0	17,231	1	9	1,563	0	-16
30	23,688	-11	17,804	465	0	16,968	1	9	1,305	0	3
Total		-144	344,599	10,825	0	308,915	8	257	45,491	20	-877

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

June 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
May 31	127.93	25,621										
	1	125.96	20,066	-5,555	5,386	2,955	17	643	1,692	5,752	0	118
	2	125.95	20,039	-27	11,312	2,955	19	619	1,708	5,752	0	-286
	3	126.29	20,951	912	12,160	2,896	20	591	1,682	5,752	0	-307
	4	127.60	24,646	3,695	13,416	2,896	20	635	1,442	4,780	0	52
	5	129.15	29,385	4,739	13,678	2,836	14	653	1,450	3,769	0	-217
	6	129.67	31,064	1,679	10,834	2,757	8	601	1,442	3,749	0	-598
	7	130.08	32,418	1,354	10,092	2,658	9	569	1,444	3,749	0	-310
	8	130.31	33,190	772	9,334	2,638	8	560	1,452	3,550	0	-354
	9	130.50	33,833	643	8,552	2,658	12	585	1,505	3,174	0	25
	10	130.55	34,004	171	8,424	2,737	14	563	1,630	2,757	0	-552
	11	130.71	34,552	548	8,276	2,737	14	553	1,636	2,360	0	-428
	12	132.17	39,741	5,189	12,404	2,737	14	611	1,523	1,962	0	-368
	13	132.63	41,446	1,705	9,043	2,757	15	668	1,519	1,755	0	-624
	14	132.75	41,897	451	7,500	2,777	16	682	1,579	1,718	0	-278
	15	133.24	43,759	1,862	7,896	2,836	14	702	1,603	391	0	-489
	16	132.05	39,302	-4,457	2,064	2,876	10	732	1,628	914	0	-361
	17	132.03	39,229	-73	7,156	2,876	9	797	1,698	1,450	0	-399
	18	132.60	41,334	2,105	10,305	2,896	9	839	1,763	2,281	0	-412
	19	133.00	42,842	1,508	10,258	2,916	9	851	1,853	2,757	0	-364
	20	133.06	43,070	228	9,284	2,936	14	863	1,910	2,757	0	-576
	21	133.24	43,759	689	9,972	2,955	16	871	1,882	2,757	0	-802
	22	133.79	45,893	2,134	11,708	2,936	16	869	1,886	3,531	0	-337
	23	134.02	46,800	907	11,928	2,896	20	891	1,948	4,760	0	-506
	24	134.19	47,472	672	11,526	2,856	28	899	2,063	4,741	0	-267
	25	133.67	45,424	-2,048	9,118	2,856	30	887	2,162	4,701	0	-530
	26	133.40	44,375	-1,049	9,080	2,856	30	879	2,241	3,669	0	-454
	27	132.85	42,274	-2,101	11,432	2,876	28	887	2,301	6,863	0	-578
	28	131.91	38,792	-3,482	12,578	2,896	24	889	2,281	9,521	0	-449
	29	131.64	37,818	-974	17,231	2,896	22	889	2,260	11,504	0	-634
	30	130.78	34,793	-3,025	16,968	2,916	24	891	2,280	12,734	0	-1,148
Total				9,172	308,915	85,270	501	22,169	53,460	125,910	0	-12,433
												171,401

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

**Table 7. Oroville-Thermalito Complex**

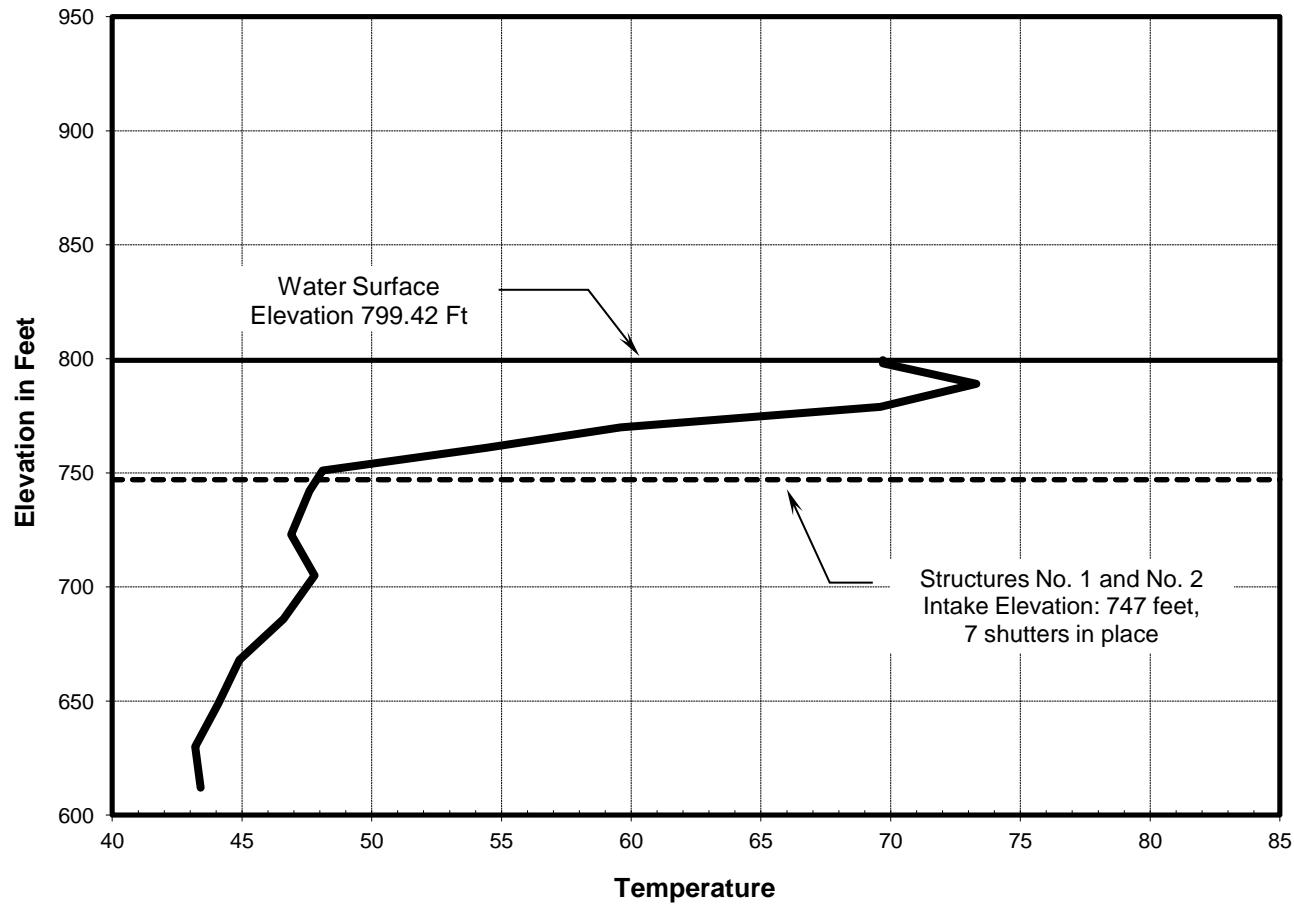
Water Temperature Data

(in degrees Fahrenheit)

June 2009

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	69	54
2	68	53
3	66	55
4	63	56
5	61	56
6	61	56
7	62	57
8	63	58
9	62	58
10	63	58
11	64	59
12	65	59
13	65	59
14	66	59
15	66	59
16	65	60
17	66	60
18	69	60
19	70	56
20	68	55
21	69	55
22	70	56
23	69	57
24	67	57
25	65	57
26	65	57
27	68	58
28	69	59
29	67	59
30	65	59

**Lake Oroville Temperature Profile  
on June 17, 2009**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**

June 2009

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Permit	Article 56C	Dry Year Purchase	Settlement	
	No.	Structure	Mile								
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,585	1/ 454	512	610	308	353	
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	286						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	354						
				Solano County Water Agency Fairfield / Vacaville 42"	1,671						
			17.00	Solano County Water Agency Central Solano	Stub						
2	3A	Cordelia Forebay	21.23			1/ 454	512	610	308	353	
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,302						
3B	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	966	1/ 454	512	610	308	353	
				Solano County Water Agency Benicia	963						
		Cordelia Surge Tank	23.33								
		Creston Surge Tank Connection	25.65								
	3B		26.95	Napa County Flood Control & WCD American Canyon 2	308	1/ 454	512	610	308	353	
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	1,059						
			27.60	Napa County Flood Control & WCD American Canyon 1	6						

1/ Includes 1AF of Napa Co. FC&WCD TBLA through Solano's Co.'s turnout (Reach 3A) for delivery to American Canyon.

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

**June 2009**

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	201	187	820	820	286	0	0	264
2	192	119	829	829	350	0	0	177
3	193	117	1,293	1,293	482	24	0	70
4	212	124	1,013	1,013	564	50	0	0
5	216	133	1,201	1,201	553	39	0	0
6	200	119	1,194	1,194	557	39	0	0
7	190	118	1,109	1,109	538	42	0	0
8	191	113	832	832	551	60	0	0
9	202	118	926	926	510	21	0	0
10	199	113	974	974	535	22	0	1
11	175	99	947	947	549	32	0	0
12	189	109	963	963	561	34	0	0
13	173	104	944	944	537	48	0	0
14	175	111	1,107	1,107	525	49	0	0
15	175	107	925	925	576	56	0	0
16	181	105	962	962	578	83	0	0
17	190	107	830	830	543	28	0	0
18	205	108	970	970	543	24	0	0
19	201	107	1,051	1,051	552	20	0	1
20	191	104	1,055	1,055	393	0	0	28
21	193	124	1,091	1,091	389	0	0	161
22	208	127	1,086	1,086	261	0	0	0
23	203	123	698	698	219	0	0	0
24	170	90	441	441	327	0	0	181
25	185	111	268	268	480	0	0	36
26	180	107	271	271	511	0	0	0
27	176	107	653	653	539	0	0	0
28	190	110	332	332	519	0	0	0
29	125	52	2,233	2,233	509	0	0	0
30	104	29	2,445	2,445	550	0	0	0
Total	5,585	3,302	29,463	29,463	14,587	670	0	919

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

June 2009

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	0:01	8:45	11:30	17:41					4,475
2	0:01	10:15	12:30	16:18					4,470
3	0:01	11:45	19:45	20:15					4,468
4	0:01	13:00	16:15	18:40					4,465
5	0:45	14:15	16:30	19:30					4,468
6	1:30	15:00							2,232
7	2:15	10:30							2,231
8	3:00	10:44							2,226
9	0:01	4:30	7:30	13:55	16:15	18:10			2,955
10	0:01	5:15	8:27	14:00	17:00	20:24			3,951
11	0:01	5:45	8:30	14:30	18:00	21:35			3,964
12	0:01	6:30	9:00	15:15	18:50	22:15			3,960
13	0:01	2:00	9:30	16:00	20:00	21:20			3,965
14	0:01	8:00	10:15	16:45	20:45				3,958
15		8:45	11:00	16:42	21:20	23:00			3,957
16	0:15	10:00	11:45	17:15	22:00				3,964
17		6:54	10:39	11:30					1,365
18	0:01	8:20							1,370
19	0:01	8:30							1,378
20	0:30	5:05							1,372
21	1:15	8:40							2,166
22	1:45	9:36							1,972
23	0:01	3:30	6:15	11:30					1,970
24	0:20	4:00							974
25	0:18	3:00							974
26	0:15	5:00	8:00	9:30	11:09	14:05			967
27	0:01	3:30	18:00						1,970
28		6:45							1,664
29	0:01	7:36							1,677
30	0:01	7:04	23:05						1,671
Total inflow for the month in AF:									81,199

**Table 11. Governor Edmund G. Brown California Aqueduct**

Delta Field Division, Monthly Deliveries

(In acre-feet)

**June 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	General Conveyance	Article 56C	Local Other	
	No.	Structure	Mile								
1A			1.83	Byron-Bethany I.D.	4,221					4,221	
1	1	Banks Pumping Plant	3.32		29,463		35				
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	14,587						
		Check No. 1	5.95								
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0						
	2	Check No. 2	12.01								
			12.47	Musco Olive	35						
		Check No. 3	18.29								
	3		22.16	Tracy Golf & Country Club	0						
		Check No. 4	23.99								
2A	4	Check No. 5	29.73								
	5	Check No. 6	34.24								
	6		35.22	Turlock Fruit Company Inflow	0						
		Check No. 7	39.91								
	7		42.46	Oak Flat Water District-A	78	78	127	125	154	144	
			42.9	Western Hills WD	144						
			43.81	Oak Flat Water District-B	127						
			44.64	Oak Flat Water District-C	125						
		Check No. 8	45.97								
	8		46.18	Oak Flat Water District-D	154						
				Oak Flat Totals:	484						
2B	9	Check No. 9	51.3				18	0	0	0	
		Check No. 10	56.86								
	10	Check No. 11	61.4								
			66.14	Veteran's Cemetery	18						
	11	Check No. 12	66.71		12,722						

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

June 2009

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	Local	Article 56C	Semitropic Recovery	Recreation		
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	14,587	5	32	949				
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	5							
	Check No. 1	3.91										
	2	Check No. 2	5.21									
	3		7.21	Zone 7 Water Agency Altamont	32							
2		Check No. 3	9.49	Zone 7 Water Agency Patterson Storage Exchange Project Water	0 949							
4	4	Check No. 4	10.68			207	117	25				
	5	Check No. 5	12.29									
	6		13.55	Zone 7 Water Agency Wente #1	207							
			14.16	Zone 7 Water Agency Wente #2	117							
			14.31	Zone 7 Water Agency Ising	25							
		Check No. 6	14.65									
	7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water	0	98	35					
		Check No. 7	16.38									
			16.57	Zone 7 Water Agency Wente #3	0							
5	8		16.63	Zone 7 Water Agency Wente #4	98							
			16.69	Zone 7 Water Agency Norman Nursery	0							
			16.70	Zone 7 Water Agency Concannon Project Water	35							
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	670	150	400			16		
				Pumped into South Bay Aqueduct	0							
				Gravity into South Bay Aqueduct	919							
		Deliveries through Del Valle Branch Pipeline		Zone 7 Water Agency Arroyo Valle #1 & #2 Project Water Storage Exchange Inflow Release	150 0 400							
				East Bay Regional Park Dist. Del Valle Recreation	16							
6				Zone 7 Water Agency Wente #5	103							
			19.20	Zone 7 Water Agency So. Livermore Project Storage Exchange Project Water	0 2,307	103	2,307	179				
7			19.21	Zone 7 - Kalthrof Detjens	179							
La Costa Tunnel		22.50	ACWD - Vallecitos Project Water	0								
		25.97	City of San Francisco San Antonio	0								
8	Mission Tunnel	28.97		ACWD - Bayside 1 & 2 Project Water Inflow Release Storage Exchange	260 826 1,091	1,091	260	826				
	Santa Clara Pipeline	35.86		S.C.V.W.D. Meter	13 8,042							

**Table 13. Lake Del Valle**

Daily Operation

Capacity: 77,106 ac-ft

**June 2009**

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
May 31	701.50	38,862									
1	701.66	38,973	111	387	0	0	264	1	10	275	0.00
2	701.75	39,036	63	250	0	0	177	1	9	187	0.00
3	701.84	39,099	63	123	24	0	70	1	12	83	0.02
4	701.92	39,155	56	16	50	0	0	1	9	10	0.26
5	701.99	39,204	49	20	39	0	0	1	9	10	0.00
6	701.98	39,197	-7	-38	39	0	0	1	7	8	0.00
7	701.96	39,183	-14	-43	42	0	0	1	12	13	0.00
8	701.93	39,162	-21	-72	60	0	0	1	8	9	0.00
9	701.98	39,197	35	27	21	0	0	1	12	13	0.00
10	702.16	39,323	126	117	22	0	1	1	11	13	0.00
11	702.20	39,351	28	7	32	0	0	1	10	11	0.00
12	702.16	39,323	-28	-50	34	0	0	1	11	12	0.00
13	701.82	39,085	-238	-278	48	0	0	1	7	8	0.00
14	701.63	38,953	-133	-171	49	0	0	1	9	10	0.00
15	701.47	38,841	-111	-154	56	0	0	1	12	13	0.00
16	701.39	38,786	-56	-132	83	0	0	1	6	7	0.00
17	701.38	38,779	-7	-22	28	0	0	0	12	12	0.00
18	701.36	38,765	-14	-24	24	0	0	0	13	13	0.00
19	701.35	38,758	-7	-13	20	0	1	0	12	13	0.00
20	701.33	38,744	-14	30	0	0	28	0	16	44	0.00
21	701.40	38,793	49	222	0	0	161	0	12	173	0.00
22	701.50	38,862	70	83	0	0	0	0	13	13	0.00
23	701.60	38,932	70	85	0	0	0	0	15	15	0.00
24	701.64	38,960	28	223	0	0	181	0	14	195	0.00
25	701.75	39,036	77	127	0	0	36	0	14	50	0.00
26	701.85	39,106	70	84	0	0	0	0	14	14	0.00
27	701.90	39,141	35	49	0	0	0	0	14	14	0.00
28	701.91	39,148	7	27	0	0	0	0	20	20	0.00
29	702.00	39,211	63	83	0	0	0	0	20	20	0.00
30	701.78	39,057	-154	-132	0	0	0	0	21	21	0.00
<b>Total</b>				195	824	670	0	919	16	364	1,299
1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.											
2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.											
3/ To East Bay Regional Park District.											
NR=No Records											

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations  
June 2009

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/	
May 31	220.51	44,479										
1	220.55	44,583	104	0	0	6,218	0	2,174	0	3,978	14	0
2	220.80	45,237	654	0	0	5,910	132	1,812	0	3,850	14	-36
3	221.90	48,124	2,887	0	0	6,566	473	1,786	0	3,522	14	-261
4	222.19	48,889	765	0	0	6,121	158	1,580	0	4,342	19	48
5	222.36	49,341	452	0	0	6,422	438	1,513	0	5,171	19	71
6	222.31	49,208	-133	0	0	6,236	262	1,467	0	4,945	19	-134
7	222.59	49,953	745	0	0	6,390	284	1,182	0	4,935	19	-162
8	223.67	52,840	2,887	0	0	6,178	190	783	0	3,966	19	-144
9	224.05	53,861	1,021	0	0	5,868	264	979	0	4,302	19	-317
10	223.64	52,759	-1,102	0	0	4,734	157	1,282	0	4,141	19	-5
11	222.70	50,246	-2,513	0	0	4,726	226	1,433	0	4,658	20	-108
12	222.70	50,246	0	0	0	6,216	114	1,588	0	4,666	20	-56
13	222.78	50,459	213	0	0	6,180	63	1,473	0	4,537	20	-106
14	223.46	52,276	1,817	0	0	6,160	203	1,303	0	3,955	20	-169
15	223.85	53,323	1,047	0	0	5,376	78	1,243	0	3,632	20	-31
16	224.24	54,374	1,051	0	0	5,554	0	1,220	0	3,768	20	-16
17	223.70	52,920	-1,454	0	0	4,392	256	1,052	0	4,252	20	-57
18	223.55	52,518	-402	0	0	4,937	122	925	0	3,956	17	-364
19	223.02	51,100	-1,418	0	0	5,111	191	1,487	0	4,326	17	-187
20	222.00	48,385	-2,715	0	0	5,220	242	1,495	0	5,225	17	-94
21	222.04	48,491	106	0	0	5,900	365	1,264	0	4,890	17	-41
22	223.35	51,982	3,491	0	0	5,751	398	897	0	3,461	17	-14
23	224.19	54,239	2,257	0	0	6,790	236	1,007	0	4,810	17	-54
24	222.80	50,513	-3,726	0	0	4,948	0	1,465	0	5,238	17	-106
25	220.90	45,498	-5,015	0	0	4,380	0	1,924	0	5,044	24	84
26	220.32	43,983	-1,515	0	0	6,299	0	2,098	0	5,286	24	345
27	220.08	43,360	-623	0	0	7,109	0	1,964	0	5,535	25	101
28	219.92	42,945	-415	0	0	7,061	0	1,824	0	5,491	25	70
29	220.51	44,479	1,534	0	0	6,980	348	1,782	0	4,514	25	-234
30	221.70	47,598	3,119	0	0	6,385	1,214	1,708	0	4,678	25	384
Total		3,119	0	0	176,118	6,414	43,710	0	135,074	582	-1,593	
Mean cfs		---	0	0	5,871	214	1,457	0	4,502	19	-53	
Acre-feet		3,119	0	0	349,333	12,722	86,703	0	267,922	1,154	-3,157	

1/ Pump-in located at Mile 79.67R.

2/ Includes 118 AF delivered to DFG at O'Neill Forebay, 1 AF to Parks & Rec., and 1,035 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**  
**Daily Operations**  
**June 2009**

United States  
 Department of the Interior  
 Bureau of Reclamation  
 Central Valley Project

State of California  
 The Resources Agency  
 Department of Water Resources  
 State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
May 31	422.24	710,595							
1	420.81	697,887	-12,708	0	6,218	287	0	98	
2	419.34	684,913	-12,974	0	5,910	269	0	-362	
3	417.84	671,769	-13,144	0	6,566	325	0	264	
4	416.39	659,154	-12,615	0	6,121	234	0	-5	
5	414.93	646,543	-12,611	0	6,422	226	0	290	
6	413.41	633,510	-13,033	0	6,236	221	0	-114	
7	411.91	620,747	-12,763	0	6,390	222	0	177	
8	410.43	608,249	-12,498	0	6,178	231	0	108	
9	409.05	596,681	-11,568	0	5,868	219	0	255	
10	407.86	586,774	-9,907	0	4,734	222	0	-39	
11	406.72	577,340	-9,434	0	4,726	182	0	152	
12	405.19	564,770	-12,570	0	6,216	185	0	64	
13	403.68	552,466	-12,304	0	6,180	179	0	156	
14	402.15	540,102	-12,364	0	6,160	182	0	109	
15	400.77	529,040	-11,062	0	5,376	178	0	-23	
16	399.06	515,451	-13,589	0	5,554	177	0	-1,120	
17	397.91	506,387	-9,064	0	4,392	249	0	71	
18	396.66	496,602	-9,785	0	4,937	109	0	113	
19	395.32	486,192	-10,410	0	5,111	240	0	103	
20	393.92	475,404	-10,788	0	5,220	242	0	23	
21	392.40	463,793	-11,611	0	5,900	247	0	293	
22	390.84	451,986	-11,807	0	5,751	247	0	45	
23	389.03	438,430	-13,556	0	6,790	272	0	228	
24	387.64	428,122	-10,308	0	4,948	267	0	18	
25	386.42	419,150	-8,972	0	4,380	248	0	105	
26	384.63	406,112	-13,038	0	6,299	228	0	-46	
27	382.65	391,867	-14,245	0	7,109	220	0	147	
28	380.68	377,878	-13,989	0	7,061	215	0	223	
29	378.68	363,866	-14,012	0	6,980	226	0	142	
30	376.79	350,801	-13,065	0	6,385	211	1	10	
Total		-359,794		0	176,118	6,760	1	1,485	
Mean cfs		---		0	5,871	225	0	50	
Acre-feet		-359,794		0	349,333	13,409	1	2,949	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 11,476 AF, Casa De Fruta 0 AF, and San Benito 1,933 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**June 2009**

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant			San Felipe Project	
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	8,768	5,672	12,333	5,331	0	0	570
2	8,486	5,391	11,722	3,701	0	0	533
3	7,762	3,577	13,023	4,885	0	0	645
4	9,569	5,430	12,141	3,930	0	0	464
5	11,397	7,260	12,738	4,420	0	0	448
6	10,899	6,809	12,369	4,221	0	0	439
7	10,877	6,658	12,675	6,137	0	0	441
8	8,741	4,515	12,255	5,122	0	0	458
9	9,482	5,469	11,640	6,124	0	0	434
10	9,127	4,896	9,389	7,241	0	0	441
11	10,267	6,048	9,375	3,603	0	0	361
12	10,283	6,090	12,329	5,040	0	0	366
13	10,000	5,821	12,258	4,898	0	0	356
14	8,716	4,512	12,218	4,739	0	0	361
15	8,004	3,733	10,664	3,105	0	0	354
16	8,304	3,984	11,017	3,734	0	0	351
17	9,371	5,255	8,711	4,061	0	0	493
18	8,719	4,740	9,792	5,077	0	0	217
19	9,533	5,382	10,138	5,382	0	0	476
20	11,514	7,320	10,354	5,578	0	0	480
21	10,778	6,518	11,703	4,515	0	0	490
22	7,628	3,520	11,408	4,066	0	0	489
23	10,601	6,369	13,467	5,994	0	0	539
24	11,545	7,348	9,815	5,141	0	0	529
25	11,116	6,844	8,688	2,828	0	0	491
26	11,649	7,978	12,494	5,695	0	0	452
27	12,198	8,541	14,101	7,054	0	0	437
28	12,101	8,414	14,006	7,202	0	0	426
29	9,949	6,321	13,845	6,933	0	0	449
30	10,309	6,642	12,665	5,572	0	0	419
Total	297,693	177,057	349,333	151,329	0	0	13,409

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;  
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations  
June 2009

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
May 31	324.55	19,080					
1	324.52	19,067	-13	0	0	0	-13
2	324.50	19,058	-9	0	0	0	-9
3	324.47	19,044	-14	0	0	0	-14
4	324.44	19,031	-13	0	0	0	-13
5	324.43	19,026	-5	0	0	0	-5
6	324.41	19,017	-9	0	0	0	-9
7	324.40	19,013	-4	0	0	0	-4
8	324.37	18,999	-14	0	0	0	-14
9	324.32	18,977	-22	0	0	0	-22
10	324.30	18,968	-9	0	0	0	-9
11	324.27	18,954	-14	0	0	0	-14
12	324.25	18,945	-9	0	0	0	-9
13	324.21	18,927	-18	0	0	0	-18
14	324.19	18,918	-9	0	0	0	-9
15	324.17	18,910	-8	0	0	0	-8
16	324.16	18,905	-5	0	0	0	-5
17	324.14	18,896	-9	0	0	0	-9
18	324.13	18,892	-4	0	0	0	-4
19	324.08	18,869	-23	0	0	0	-23
20	324.07	18,865	-4	0	0	0	-4
21	324.03	18,847	-18	0	0	0	-18
22	324.01	18,838	-9	0	0	0	-9
23	324.00	18,833	-5	0	0	0	-5
24	323.96	18,815	-18	0	0	0	-18
25	323.94	18,807	-8	0	0	0	-8
26	323.91	18,793	-14	0	0	0	-14
27	323.90	18,789	-4	0	0	0	-4
28	323.89	18,784	-5	0	0	0	-5
29	323.86	18,771	-13	0	0	0	-13
30	323.83	18,757	-14	0	0	0	-14
Total			-323	0	0	0	-323
Mean cfs			---	0	0	0	---
Acre-feet			-323	0	0	0	-323

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

June 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
May 31	600.50	709					
1	600.50	709	0	0	0	0	0
2	600.50	709	0	0	0	0	0
3	600.50	709	0	0	0	0	0
4	600.50	709	0	0	0	0	0
5	600.50	709	0	0	0	0	0
6	600.50	709	0	0	0	0	0
7	600.50	709	0	0	0	0	0
8	600.50	709	0	0	0	0	0
9	600.50	709	0	0	0	0	0
10	600.50	709	0	0	0	0	0
11	600.50	709	0	0	0	0	0
12	600.50	709	0	0	0	0	0
13	600.50	709	0	0	0	0	0
14	600.50	709	0	0	0	0	0
15	600.50	709	0	0	0	0	0
16	600.50	709	0	0	0	0	0
17	600.50	709	0	0	0	0	0
18	600.50	709	0	0	0	0	0
19	600.50	709	0	0	0	0	0
20	600.50	709	0	0	0	0	0
21	600.50	709	0	0	0	0	0
22	600.50	709	0	0	0	0	0
23	600.50	709	0	0	0	0	0
24	600.50	709	0	0	0	0	0
25	600.50	709	0	0	0	0	0
26	600.50	709	0	0	0	0	0
27	600.50	709	0	0	0	0	0
28	600.50	709	0	0	0	0	0
29	600.50	709	0	0	0	0	0
30	600.50	709	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs			---	0	0	0	---
Acre-feet			0	0	0	0	0

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

(In acre-feet)

**June 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		12,722						
3A		San Luis Reservoir		Department of Parks and Recreation	1	11,476		1	0		
				San Felipe Division Santa Clara Water District	11,476						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	1,933						
				Reach 3A Subtotal:	13,410		13,409	0	1		
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	1	11,476		1	0		
				Cattle Program	0						
				Department of Fish & Game	118						
		Thru	70.91	San Luis Water District	1,035	1,933		65	53		
			85.08	(Floodwater Inflow)	0						
				Reach 3 Subtotal:	1,154		1,035	0	66		
		Dos Amigos Pumping Plant	86.73		267,922				53		
4	14		89.03	San Luis Water District	8,545	11,476		8,545			
			Thru 94.06								
			89.66	Pacheco Water District	1,633						
			Thru 89.67								
			89.68	Panoche Water District	53						
		Check No. 14	89.70	City of Dos Palos	159	1,933		53			
			95.06								
		15	98.15	San Luis Water District	1,663	1,933		1,663			
			Thru 104.20								
			96.15	Panoche Water District	4,134						
			Thru 102.64	(Floodwater Inflow)	0						
			102.64	Broadview Water District	0						
		Check No. 15	105.22	Westlands Water District	7,481	1,933		7,481			
			Thru 108.64								
		Check No. 15	108.50	Reach 4 Subtotal:	23,668		23,668	0	0		
				San Felipe Division Total:	13,409		13,409	0	0		
				Pacheco Water District Total:	1,633		1,633	0	0		
				Broadview Water District Total:	0		0	0	0		
				City of Dos Palos Total:	159		159	0	0		
				SLWD Reach 4 Subtotal:	10,208		10,208	0	0		
				Panoche Water District Total:	4,187		4,187	0	0		
				SLWD Total:	11,243		11,243	0	0		
				Westlands WD Reach 4 Subtotal:	7,481		7,481	0	0		

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

June 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation			
	No.	Structure	Mile									
5	16		110.52	(Reverse flow, Kings River)	0	11,682	11,682					
				Westlands Water District	11,682							
				Thru	0							
				122.05	0							
				Dept. of Fish and Game @ Lat. 4L	0							
	17		122.07	Dept. of Fish and Game @ Lat. 6L	0	2,904	1/ 990					
				Dept. of Fish and Game @ Lat. 7L	0							
				Check No. 16	122.07							
	18		124.18	Westlands Water District	3,894	7,709	2/ 450					
				Thru	0							
				132.74	0							
				Check No. 17	132.95							
6	19		133.81	Westlands Water District	8,159	6,562	575					
				Thru	0							
				142.61	0							
				Pleasant Valley Pumping Plant	143.16							
				143.16	Westlands Water District							
				Check No. 18	143.23							
					Reach 5 Subtotal:							
					30,872	29,432	1,440	0	0			
7	19		145.26	GWF Energy	0	13,078	3/ 281					
				City of Huron	0							
				SWP Construction @ Lat. 24R	0							
				Thru	0							
				151.19	Kings County to Lemoore NAS Through WWD							
					281							
					Kings County through WWD 30L							
					0							
					Westlands Water District							
					13,078							
				Check No. 19	155.64							
					Reach 6 Subtotal:							
					13,359	13,078	281	0	0			
7	20		156.34	City of Huron	100							
				156.40	SWP Construction @ Lat. 24R	5,748	4/ 600					
				Thru	0							
				163.69	Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L							
					Westlands Water District							
	21		164.69		6,348							
						2,589	229					
8			164.79	City of Avenal	229	8,666	600	0	0			
				167.04	Westlands Water District							
				Thru	2,589							
				171.67								
				Check No. 21	172.40							
					193,804							
				Reach 7 Total:	9,266	89,288	2,321	67	53			
				SWP Construction Total:	0							
				Westlands WD Total:	59,793							
				City of Coalinga Total:	575							
				City of Huron Total:	100							
				Kings County to Lemoore NAS Through WWD	281							
				City of Avenal Total:	229							
				Total San Luis Field Division Deliveries:	91,729							

1/ Same land owner transfer (Hansen/Newton) from Tulare Lake Basin WSD.

2/ Same land owner transfer (Brooks Farms) from Empire Westside ID.

3/ Long-term POD to Lemoore NAS from County of Kings.

4/ Same land owner transfer (Kettleman Hills Fruit Growers) from Dudley Ridge MWD.

**Table 20. Consolidated State-Federal San Luis Canal 1/**

Daily Operations

June 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
May 31	27,925								
1	28,868	943	0	3,978	229	44	1,084	2,193	47
2	28,654	-214	0	3,850	229	44	1,084	2,561	-40
3	27,992	-662	0	3,522	229	44	1,084	2,415	-83
4	27,492	-500	0	4,342	189	62	959	3,188	-196
5	28,020	528	0	5,171	189	62	959	3,476	-219
6	28,594	574	0	4,945	189	62	959	3,553	107
7	28,458	-136	0	4,935	189	62	959	4,224	431
8	29,010	552	0	3,966	189	62	959	2,575	97
9	28,241	-769	0	4,302	189	62	959	3,667	187
10	27,795	-446	0	4,141	189	62	959	3,100	-56
11	27,962	167	0	4,658	205	71	955	3,202	-141
12	28,188	226	0	4,666	205	80	955	3,255	-57
13	28,627	439	0	4,537	205	80	955	3,102	26
14	29,303	676	0	3,955	205	80	1,038	2,769	478
15	28,952	-351	0	3,632	205	80	1,030	2,853	359
16	28,094	-858	0	3,768	205	80	1,038	2,982	105
17	28,290	196	0	4,252	205	80	1,038	2,912	82
18	28,508	218	0	3,956	198	76	1,038	2,679	145
19	28,065	-443	0	4,326	198	76	1,038	3,283	45
20	28,614	549	0	5,225	198	76	1,038	3,757	121
21	28,756	142	0	4,890	198	76	1,038	3,830	324
22	28,543	-213	0	3,461	198	76	1,038	2,413	157
23	28,667	124	0	4,810	198	76	1,038	3,467	32
24	28,966	299	0	5,238	198	76	1,038	3,662	-113
25	28,864	-102	0	5,044	198	77	1,038	3,511	-271
26	28,454	-410	0	5,286	198	77	1,093	4,021	-104
27	28,548	94	0	5,535	198	77	1,093	4,073	-47
28	28,423	-125	0	5,491	198	77	1,093	4,429	243
29	28,607	184	0	4,514	198	77	1,093	3,140	87
30	28,037	-570	0	4,678	229	77	1,093	3,416	-151
Total		112	0	135,074	6,050	2,111	30,743	97,708	1,595
Mean cfs		---	0	4,502	202	70	1,025	3,257	53
Acre-feet		112	0	267,922	12,000	4,187	60,978	193,804	3,159

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 1,633 AF to Pacheco W.D., 159 AF to the City of Dos Palos and 10,208 AF to San Luis Water District.

3/ Includes 100 AF to the City of Huron, 229 AF to the City of Avenal, 575 AF to the City of Coalinga, 0 AF to City of Huron P&R @ 22R, 281 AF to Lemoore N.A.S. @ 29L, 0 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Kings County @ 31L - 36L, 0 AF to Broadview WD @ 4L, 0 AF DFG @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF DFG @ 7L, 0 AF Non-Project Water, 53,231 AF to Westlands Water District and 6,562 AF to Pleasant Valley Pumping Plant.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

June 2009

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	472	436	75	69	77	3,475	3,176	2,836	2,823
2	615	595	70	64	72	3,565	3,247	2,945	2,863
3	465	443	54	48	56	3,207	3,040	2,723	2,624
4	549	536	101	95	101	4,297	3,643	3,261	3,126
5	606	574	67	61	72	3,983	3,556	3,153	3,433
6	524	483	64	57	64	4,976	4,793	4,355	4,343
7	503	527	68	61	71	6,513	6,601	6,112	6,336
8	542	565	49	44	50	4,023	3,923	3,645	3,720
9	614	598	76	69	78	4,283	4,024	3,578	3,433
10	562	559	69	62	70	3,731	3,451	3,159	3,086
11	471	458	74	66	75	3,731	3,951	3,506	3,357
12	552	548	77	70	79	3,999	3,684	3,326	3,140
13	580	575	76	71	76	3,974	3,902	3,581	3,489
14	600	608	91	85	96	4,246	3,782	3,676	3,695
15	528	489	76	69	75	3,612	3,928	3,671	3,626
16	601	481	70	62	69	4,010	3,233	2,818	2,809
17	612	490	82	77	84	3,716	3,357	3,020	2,887
18	663	596	91	80	91	3,768	3,391	3,104	2,871
19	500	439	101	92	101	3,758	3,169	2,788	2,705
20	571	503	76	69	77	3,679	4,381	4,289	4,614
21	644	538	100	91	102	5,664	5,907	5,496	5,581
22	454	394	71	65	73	5,700	2,934	2,663	2,605
23	509	401	82	74	84	3,303	4,473	4,114	3,935
24	565	494	84	76	85	4,860	4,747	4,254	4,147
25	643	612	84	79	88	4,999	4,651	4,315	4,260
26	670	652	75	69	74	5,474	5,030	4,669	4,665
27	725	637	118	108	120	5,359	5,091	4,669	4,528
28	606	465	91	84	91	6,646	6,242	5,857	5,836
29	589	448	76	68	78	3,949	3,840	3,554	3,588
30	626	559	94	86	93	4,501	4,307	3,899	3,776
Total	17,160	15,704	2,382	2,171	2,422	131,001	123,453	113,036	111,902

**Table 22. Governor Edmund G. Brown California Aqueduct**  
San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

**June 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	USBR	Recovery	Transfer	Carryover Article 56C			
	No.	Structure	Mile										
7	21	Check No. 21	172.40		193,804								
8C	22			Empire West Side ID TL - A	0	895	1,444	1/ 1,900	2,407	69 323 387 201 3			
				County of Kings TL - A	0								
				Tulare Lake Basin WSD TL-A	895								
				175.18 Dudley Ridge WD - 1	69								
				177.54 Dudley Ridge WD - 1B	323								
				180.64 Tulare Lake Basin WSD - C	0								
				180.65 Dudley Ridge WD - 1A	387								
				182.99 Dudley Ridge WD - 2	2,101								
				183.00 Tulare Lake Basin WSD TL - B	1,447								
				County of Kings TL-B	0								
8D				184.00 Dudley Ridge WD - Paramount	0								
				184.63 Coastal Branch	17,160								
31A	8D			184.78 Dudley Ridge WD - 3	2,407								
				Dudley Ridge Reach 8D Total:	5,287	0	0	1,900	0	3,387			
9	23			Tulare Lake Basin WSD Total:	2,342	2,339	0	0	0	3			
				Check No. 22	184.82								
				189.69 Kern County Water Agency Lost Hills Water Dist. - 1	7,992	7,992							
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	1,638	1,638							
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	793	793							
				196.40 Kern County Water Agency Berrenda Mesa - 2	592	592							
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	1,783	1,783							
10A	24			KCWA Reach 9 Subtotal:	12,798	12,798	0	0	0	0			
				Check No. 23	197.05								
				201.24 Kern County Water Agency Lost Hills Water Dist. - 7	1,297	1,297							
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	1,182	1,182							
				204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0	6							
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	6	3,082							
10A	25			Check No. 24	207.94								
				209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	3,082	3,082							
				209.78 Kern National Wildlife Refuge USBR BV-1B	0	1,280							
				Kern County Water Agency Buena Vista WSD 1B	1,280	4,737							
				209.80 KCWA Semitropic WSD	4,737								
				KCWA Semitropic WSD Penstocks	0								
				USBR Total:	0	0	0	0	0	0			
				KCWA Reach 10A Subtotal:	11,584	11,584	0	0	0	0			

1/ Kern Water Bank Recovery.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**June 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending					Table A	USBR	Recovery	Transfer	Carryover Article 56C				
	No.	Structure	Mile											
11B	25	210.75	Kern County Water Agency Belridge - 2	0	744	744								
			Kern County Water Agency Belridge - 3	744										
			Kern County Water Agency Belridge - 4	0										
			Kern County Water Agency Belridge - 5A-C	15,484		15,484								
			Kern County Water Agency Belridge - 5D	107										
		Check No. 25	217.79											
			KCWA Reach 11B Subtotal:	16,335	16,335		0	0	0	0				
12D	26	219.58	Kern County Water Agency Belridge - 6	0	263	263								
			Kern County Water Agency West Kern - 3	263										
		Check No. 26	224.92											
			Kern County Water Agency Buena Vista - 6	6,797	6,797									
12E	27	Check No. 27	231.73											
		235.75	Kern County Water Agency Buena Vista - 2	8,064	8,064									
			Kern County WA CVC	0										
			DRWD CVC	0										
			Tulare Co.	0										
			Lower Tule River	0										
			Fresno Co.	0										
			Pixley ID	0										
			Hacienda											
			DWR Wells	0										
		Check No. 28	238.11											
			1/ Arvin Edison Total:	0	0	0	0	0	0	0				
			Reach 12E Subtotal:	14,861	14,861		0	0	0	0				
13B	29	238.19	Kern Water Bank Inflow	0	1,922									
			Kern Water Bank Outflow	0										
			Kern River Intertie (inflow)	0										
			KCWA Buena Vista WSD - 7	0										
			KCWA Buena Vista WSD - 5	1,922										
			Kern County Water Agency Buena Vista - 3	1,378										
		Check No. 29	244.54											
		249.85	Kern County Water Agency Buena Vista - 4	890	1,378									
			Buena Vista Pumping Plant	131,001										
			KCWA Reach 13B Subtotal:	4,190	4,190		0	0	0	0				
14A	31	254.47	Kern County Water Agency West Kern - 2	0	458									
		256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	458										

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

June 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.	Structure	Mile		Table A	USBR	Recovery	Transfer	Carryover Article 56C
	No.	Structure									
14A	31	Check No. 31	256.14				959	2,012	0	0	0
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	959						
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	2,012						
		Check No. 32	261.72								
				KCWA Reach 14A Subtotal:	3,429						
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	4,711		4,711	805	0	0	0
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	805						
		Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	3,601						
			271.27								
				Reach 14B Total:	9,117						
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	2,700		2,506	1,547	1/ 194	0	0
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	1,547						
			277.30	Kern County Water Agency Arvin-Edison WSD	0						
				Reach 14C Total:	4,247						
		Teerink Pumping Plant	278.13		123,453						
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	929		929	4,271	0	0	0
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	4,271						
				Reach 15A Total:	5,200						
		Chrismar Pumping Plant	280.36		113,036						
16A	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0		21	84	1/ 13	0	0
			283.95								
	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	34						
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	84						
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0						
		Check No. 38	287.09								
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	151						
			290.21								
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	1,399						
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	205						
				Kern County Water Agency Tehachapi Cummings CWD	1,043						
				KCWA Reach 16A Subtotal:	2,916						
					111,902						
17E		Edmonston Pumping Plant	293.45								

1/ Pump Recovery.

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

**June 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Recovery	Transfer	Carryover Article 56C		
	No.	Structure										
31A	C-1	Coastal Branch Control	0.02		17,160	244	13,727	0	0	0		
		Las Perillas Pumping Plant	1.16		17,160							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		15,704							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	244							
			14.83	Kern County Water Agency Berrenda Mesa - 1	13,727							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		2,382							
				KCWA Reach 31A Subtotal:	13,971	13,971	0	0	0	0		
				KCWA Total:	98,911	98,704	0	207	0	0		
33A	C-7	Bluestone Pumping Plant	19.05		2,171	532	355	1/ 1,165	387			
	C-8	Polonio Pass Pumping Plant	26.54		2,422							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0							
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,084							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	355							
		Energy Dissipater	78.12									
	Lopez T.O.	85.86		SLOCFC & WCD	0	887	0	0	1,165	387		
				CCWA Total:	2,439							
35	C-12	Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
				SBCFC & WCD Total:	0	0	0	0	0	0		
38		Tank Site 5	115.42									

1/ Table A Transfer from San Luis Obispo.

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

June 2009

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Bypass Through Plant	Tehachapi Afterbay Bypass	Generation	Leakage	Bypass Flume						
1	1,956	1,523	0	413	2,958	0	866	0	0	707	741	0	0	703	47	43	18
2	2,179	1,525	0	651	3,891	0	779	0	0	740	617	0	0	888	60	58	29
3	1,799	1,547	0	495	3,408	0	872	0	0	599	292	0	0	703	60	58	28
4	2,340	1,573	0	990	4,110	0	1,080	0	0	753	615	0	0	899	60	58	22
5	2,179	1,574	0	992	960	0	964	0	0	896	804	0	0	1,060	52	20	23
6	2,336	1,575	0	992	167	0	1,521	0	0	1,428	883	0	0	1,568	48	47	22
7	3,838	1,575	0	992	508	0	2,482	0	0	2,221	2,035	0	0	1,449	50	49	22
8	1,383	1,568	0	496	2,681	0	2,452	0	0	1,728	1,878	0	0	1,420	45	41	22
9	1,753	1,571	0	248	2,183	0	1,880	0	0	1,495	1,235	0	0	1,648	47	42	29
10	1,382	1,574	0	0	1,160	0	1,723	0	0	1,522	1,402	0	0	1,781	47	42	29
11	1,490	1,572	0	0	1,873	0	1,721	0	0	1,362	1,419	0	0	1,630	45	42	20
12	1,375	1,572	0	0	1,972	0	1,617	0	0	1,566	1,789	0	0	1,828	44	42	21
13	1,436	1,578	0	0	956	0	2,322	0	0	1,885	1,884	0	0	1,740	44	42	22
14	1,541	1,577	0	0	673	0	2,066	0	0	1,850	1,842	0	0	1,584	43	42	41
15	1,540	1,578	0	0	2,072	0	1,983	0	0	1,870	1,840	0	0	1,604	55	54	21
16	1,653	851	0	165	2,430	0	1,486	0	0	1,154	436	0	0	1,695	60	58	29
17	1,644	1,532	0	145	1,978	0	462	0	0	274	753	0	0	1,495	61	58	27
18	1,537	1,533	0	0	1,846	0	1,314	0	0	1,002	950	0	0	1,683	54	51	21
19	1,434	1,534	0	0	1,312	0	1,701	0	0	1,579	1,620	0	0	1,738	51	48	21
20	1,915	1,532	0	0	123	0	2,330	0	0	2,219	2,135	0	0	1,778	46	44	21
21	2,404	1,526	0	0	218	0	2,727	0	0	2,839	2,974	0	0	1,494	46	44	20
22	1,006	1,524	0	0	2,172	0	2,234	0	0	2,116	2,076	0	0	1,903	44	40	21
23	1,324	1,528	0	0	4,187	0	1,782	0	0	1,949	1,668	0	0	1,696	45	42	29
24	1,383	1,528	0	0	3,470	1,813	2,380	0	0	2,298	2,329	0	0	1,850	50	42	26
25	1,327	1,531	0	0	2,036	1,926	2,776	0	0	2,634	1,691	0	909	1,879	56	42	19
26	1,272	1,534	0	0	3,994	2	3,062	0	99	2,778	2,636	0	0	2,359	57	42	20
27	1,557	1,534	0	0	3,506	1,084	2,897	0	0	2,808	2,850	0	0	2,114	57	42	21
28	2,461	1,531	0	0	1,548	2,748	3,007	0	397	2,965	2,742	0	0	1,912	57	42	21
29	1,298	1,529	0	0	3,576	4,154	2,433	0	0	1,888	1,880	0	0	2,056	68	54	21
30	1,319	1,529	0	0	3,748	2,500	2,388	0	0	1,997	2,299	0	0	2,427	72	58	29
Total	52,061	45,758	0	6,579	65,716	14,227	57,307	0	496	51,122	48,315	0	909	48,584	1,571	1,387	715

1/ Values supplied by LADWP, not verified by DWR.

**Table 25. Pyramid Lake**

Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**June 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	
				Project		Natural	Project		To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.	
May 31	2577.13	168,780										
1	2575.97	167,294	-1,486	0	1,523	413	19	2,958	0	24	0	-459
2	2574.34	165,219	-2,075	0	1,525	651	19	3,891	0	24	0	-355
3	2573.05	163,589	-1,630	0	1,547	495	19	3,408	0	24	0	-259
4	2571.46	161,595	-1,994	0	1,573	990	19	4,110	0	22	0	-444
5	2572.73	163,187	1,592	0	1,574	992	20	960	1	20	0	-13
6	2574.67	165,638	2,451	0	1,575	992	20	167	0	20	0	51
7	2576.42	167,869	2,231	0	1,575	992	20	508	0	20	0	172
8	2575.82	167,102	-767	0	1,568	496	20	2,681	0	20	0	-150
9	2575.44	166,617	-485	0	1,571	248	20	2,183	0	20	0	-121
10	2575.70	166,949	332	0	1,574	0	21	1,160	0	20	0	-83
11	2575.32	166,464	-485	0	1,572	0	20	1,873	0	20	0	-184
12	2575.20	166,311	-153	0	1,572	0	21	1,972	0	20	0	246
13	2576.08	167,434	1,123	0	1,578	0	21	956	0	20	0	500
14	2576.88	168,459	1,025	0	1,577	0	21	673	0	20	0	120
15	2575.88	167,179	-1,280	0	1,578	0	21	2,072	0	20	0	-787
16	2574.73	165,714	-1,465	0	851	165	21	2,430	0	20	0	-52
17	2574.58	165,523	-191	0	1,532	145	20	1,978	1	20	0	111
18	2574.01	164,801	-722	0	1,533	0	19	1,846	0	20	0	-408
19	2574.73	165,714	913	0	1,534	0	18	1,312	0	20	0	693
20	2575.43	166,604	890	0	1,532	0	16	123	0	20	0	-515
21	2576.55	168,036	1,432	0	1,526	0	15	218	0	20	0	129
22	2575.79	167,064	-972	0	1,524	0	14	2,172	0	20	0	-318
23	2574.93	165,968	-1,096	0	1,528	0	13	4,187	0	20	0	1,570
24	2573.78	164,510	-1,458	1,813	1,528	0	12	3,470	1	20	0	-1,320
25	2574.57	165,511	1,001	1,926	1,531	0	12	2,036	0	19	0	-413
26	2572.16	162,471	-3,040	2	1,534	0	12	3,994	0	17	0	-577
27	2571.81	162,033	-438	1,084	1,534	0	12	3,506	0	17	0	455
28	2574.04	164,839	2,806	2,748	1,531	0	12	1,548	0	17	0	80
29	2575.16	166,260	1,421	4,154	1,529	0	11	3,576	0	17	0	-680
30	2575.37	166,528	268	2,500	1,529	0	11	3,748	0	17	0	-7
Total			-2,252	14,227	45,758	6,579	519	65,716	3	598	0	-3,018

1/ Values supplied by LADWP, not verified by DWR.

**Table 26. Elderberry Forebay**

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

**June 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
May 31	1506.80	17,973								
1	1505.14	17,361	-612	2,958	0	0	0	3,571	1	
2	1506.53	17,873	512	3,891	0	0	0	3,378	-1	
3	1503.85	16,892	-981	3,408	0	0	0	4,391	2	
4	1505.28	17,412	520	4,110	0	0	0	3,589	-1	
5	1507.92	18,393	981	960	0	0	0	0	21	
6	1508.22	18,506	113	167	0	0	0	0	-54	
7	1509.50	18,992	486	508	0	0	0	0	-22	
8	1505.68	17,559	-1,433	2,681	0	0	0	4,115	1	
9	1504.22	17,026	-533	2,183	0	0	0	2,717	1	
10	1507.42	18,205	1,179	1,160	0	0	0	0	19	
11	1507.15	18,104	-101	1,873	0	0	0	1,974	0	
12	1505.29	17,416	-688	1,972	0	0	0	2,661	1	
13	1507.88	18,378	962	956	0	0	0	0	6	
14	1509.73	19,080	702	673	0	0	0	0	29	
15	1514.80	21,079	1,999	2,072	0	0	0	0	-73	
16	1514.02	20,765	-314	2,430	0	0	0	2,747	3	
17	1512.60	20,199	-566	1,978	0	0	0	2,542	-2	
18	1517.05	22,001	1,802	1,846	0	0	0	0	-44	
19	1513.35	20,496	-1,505	1,312	0	0	0	2,817	0	
20	1507.99	18,419	-2,077	123	0	0	0	2,202	2	
21	1508.60	18,650	231	218	0	0	0	0	13	
22	1514.04	20,773	2,123	2,172	0	0	0	0	-49	
23	1518.61	22,652	1,879	4,187	0	0	0	2,306	-2	
24	1512.48	20,151	-2,501	3,470	0	1,813	0	4,157	-1	
25	1503.73	16,849	-3,302	2,036	0	1,926	0	3,414	2	
26	1514.24	20,853	4,004	3,994	0	2	0	0	12	
27	1520.26	23,351	2,498	3,506	0	1,084	0	0	76	
28	1517.15	22,042	-1,309	1,548	0	2,748	0	0	-109	
29	1515.65	21,425	-617	3,576	0	4,154	0	0	-39	
30	1513.81	20,680	-745	3,748	0	2,500	0	1,993	0	
Total				2,707	65,716	0	14,227	0	48,574	
									-208	

1/ Values supplied by LADWP, not verified by DWR.

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**June 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries		
				Natural	Project				
May 31	1482.74	256,221							
1	1483.81	258,317	2,096	0	3,571	1	1,493	6 23	
2	1484.70	260,069	1,752	0	3,378	1	1,565	6 -56	
3	1486.05	262,737	2,668	0	4,391	1	1,676	6 -42	
4	1487.10	264,823	2,086	0	3,589	1	1,585	6 87	
5	1486.30	263,233	-1,590	0	0	1	1,525	6 -60	
6	1485.58	261,806	-1,427	0	0	1	1,465	6 43	
7	1484.90	260,463	-1,343	0	0	1	1,331	6 -7	
8	1486.29	263,213	2,750	0	4,115	1	1,392	6 32	
9	1486.86	264,346	1,133	0	2,717	1	1,518	6 -61	
10	1486.14	262,916	-1,430	0	0	1	1,447	6 22	
11	1486.41	263,451	535	0	1,974	1	1,438	6 4	
12	1486.94	264,505	1,054	0	2,661	1	1,476	6 -126	
13	1486.30	263,233	-1,272	0	0	2	1,346	6 78	
14	1485.62	261,886	-1,347	0	0	2	1,317	6 -26	
15	1484.90	260,463	-1,423	0	0	1	1,420	6 2	
16	1485.61	261,866	1,403	0	2,747	1	1,411	6 72	
17	1486.10	262,836	970	0	2,542	1	1,545	6 -22	
18	1485.18	261,016	-1,820	0	0	1	1,831	8 18	
19	1485.69	262,024	1,008	0	2,817	1	1,963	10 163	
20	1485.82	262,282	258	0	2,202	1	2,105	10 170	
21	1484.86	260,384	-1,898	0	0	1	1,999	10 110	
22	1483.74	258,180	-2,204	0	0	0	2,064	10 -130	
23	1483.82	258,337	157	0	2,306	0	2,381	10 242	
24	1484.77	260,207	1,870	0	4,157	0	2,261	10 -16	
25	1485.34	261,332	1,125	0	3,414	0	2,292	10 13	
26	1484.14	258,966	-2,366	0	0	0	2,213	10 -143	
27	1482.98	256,690	-2,276	0	0	0	2,364	10 98	
28	1481.86	254,503	-2,187	0	0	0	2,273	10 96	
29	1480.66	252,171	-2,332	0	0	0	2,305	10 -17	
30	1480.58	252,006	-165	0	1,993	0	2,278	10 130	
Total				-4,215	0	48,574	23 53,279	230 697	

1/ Values supplied by LADWP, not verified by DWR.

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

June 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Local	Flexible Withdrawal	Article 56C	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		52,061							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07	(6,579 AF of flow through Gorman Creek Imp. Channel)	45,758							
29H	W3	Pyramid Lake		USFS		3	3					
				Pyramid Recreation (T300)	3							
				United WA (T300)	0							
		Pyramid Dam	17.10	California State Park								
29J	W4	Castaic Power Plant	25.82	(14,227 AF pumpback ) 2/	65,716	24	24					
		Elderberry Forebay										
		Forebay Dam	28.12									
		Castaic Lake		California State Park								
30 1/	W5			Castaic Lake Recreation (T301)	24	46,116	417			3/ 3,671		
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.6	MWDSC 78" & 132" (T302)	49,787							
				Castaic Lake WA 18", 24" & 54" (T303)	1,517							
				Castaic Lake WA Rio Vista T.P. (T304)	1,951							
				MWD-Ventura Co. WPD (T302)	0							
				Releases to Lagoon	230							
				Reach 30 Subtotal:	53,279							
W6		Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
		Castaic Lagoon Outlet	31.9		180							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR

3/ Includes 1,900AF of Kern-Delta Recovery and 1,771 AF of Arvin Edison Recovery.

4/ General Conveyance of non-project Article 55 water from Kern County WA.

**Table 29. Silverwood Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**June 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River		
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel				
May 31	3350.92	71,045											
1	3351.01	71,131	86	741	0	1	6	0	703	0	0	53	
2	3350.47	70,620	-511	617	0	1	12	0	888	0	0	-229	
3	3350.25	70,412	-208	292	0	1	4	1	703	0	1	208	
4	3349.83	70,016	-396	615	0	2	7	0	899	0	0	-107	
5	3349.58	69,782	-234	804	0	2	5	0	1,060	0	0	26	
6	3348.73	68,986	-796	883	0	2	3	1	1,568	0	0	-109	
7	3349.35	69,566	580	2,035	0	2	3	0	1,449	0	1	-4	
8	3349.88	70,063	497	1,878	0	2	3	0	1,420	0	0	41	
9	3349.38	69,594	-469	1,235	0	2	2	1	1,648	0	0	-55	
10	3349.27	69,491	-103	1,402	0	2	3	0	1,781	0	0	277	
11	3349.24	69,463	-28	1,419	0	2	3	0	1,630	0	1	185	
12	3349.18	69,407	-56	1,789	0	2	2	1	1,828	0	0	-16	
13	3349.46	69,669	262	1,884	0	2	3	0	1,740	0	0	119	
14	3349.69	69,885	216	1,842	0	2	3	0	1,584	0	0	-41	
15	3350.00	70,176	291	1,840	0	2	2	1	1,604	0	1	57	
16	3348.59	68,856	-1,320	436	0	2	3	0	1,695	0	0	-60	
17	3347.89	68,205	-651	753	0	2	3	0	1,495	0	1	94	
18	3346.96	67,346	-859	950	0	1	2	1	1,683	0	0	-124	
19	3346.96	67,346	0	1,620	0	1	3	0	1,738	0	1	121	
20	3347.33	67,687	341	2,135	0	1	3	0	1,778	0	0	-14	
21	3348.90	69,145	1,458	2,974	0	1	2	1	1,494	0	0	-20	
22	3349.01	69,248	103	2,076	0	1	3	0	1,903	0	0	-68	
23	3348.96	69,201	-47	1,668	0	1	4	0	1,696	0	1	-15	
24	3349.55	69,753	552	2,329	0	1	3	1	1,850	0	0	76	
25	3350.22	70,384	631	1,691	909	1	4	0	1,879	0	0	-87	
26	3350.39	70,544	160	2,636	0	1	4	0	2,359	0	0	-114	
27	3351.18	71,292	748	2,850	0	1	3	1	2,114	0	1	17	
28	3351.15	71,264	-28	2,742	0	0	4	0	1,912	0	0	-854	
29	3352.05	72,121	857	1,880	0	0	4	0	2,056	0	0	1,037	
30	3351.88	71,958	-163	2,299	0	0	3	1	2,427	0	1	-30	
Total				913	48,315	909	37	109	10	48,584	0	9	
												364	
												0	

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**June 2009**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
May 31	1556.13	62,062				
1	1556.18	62,149	87		8	
2	1556.13	62,062	-87		8	
3	1556.21	62,201	139		8	
4	1556.15	62,097	-104		8	
5	1556.21	62,201	104		8	
6	1556.18	62,149	-52		8	
7	1556.21	62,201	52		8	
8	1556.18	62,149	-52		8	
9	1556.29	62,340	191		8	
10	1556.26	62,288	-52		8	
11	1556.24	62,253	-35		8	
12	1556.21	62,201	-52		8	
13	1556.32	62,392	191		8	
14	1556.18	62,149	-243		8	
15	1556.40	62,531	382		8	
16	1556.40	62,531	0		8	
17	1556.40	62,531	0		8	
18	1556.51	62,722	191		8	
19	1556.40	62,531	-191		8	
20	1556.40	62,531	0		8	
21	1556.40	62,531	0		9	
22	1556.40	62,531	0		10	
23	1556.43	62,583	52		10	
24	1556.51	62,722	139		10	
25	1556.48	62,670	-52		10	
26	1556.48	62,670	0		10	
27	1556.48	62,670	0		10	
28	1556.51	62,722	52		10	
29	1556.37	62,478	-244		34	
30	1556.48	62,670	192		77	
Total		608	2,216	350	-1,258	

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

June 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		No.			Table A	Rec.	Local	Flexible Withdrawal	Article 56C	Other		
	No.	Structure	Mile										
17E	40	Edmonston Pumping Plant	293.45		111,902								
	41		298.65	KCWA Tej.-Cas	Stub								
17F		Check No. 41	303.41										
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0								
		Check No. 42	304.99										
	43	Alamo Powerplant	305.73	(Includes 496 AF generation, 0 AF plant bypass, and 0 AF Tehachapi bypass)	57,803								
			306.71	AVEK 305th Street West (T287)	0								
			308.05	AVEK 294th Street West (T267)	0								
19	44	Check No. 43	309.70										
			311.84	LADWP Connection	0								
			313.50	AVEK 245th Street West (T269)	0								
	45	Check No. 44	314.81										
			314.93	AVEK 235th Street West (T270)	0								
			315.57	AVEK 225th Street West (T271)	0								
	46	Check No. 45	319.74										
			323.19	Antelope Valley-East Kern WA Fairmont (T272)	545								
				Mojave Water Agency Fairmont (T272)	207								
		Check No. 46	323.84										
				Reach 19 Total:	752								
20A	47	Check No. 47	326.77										
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	93								
			329.65	Antelope Valley-East Kern WA 120th Street West	Re- moved								
		Check No. 48	330.82										
	49	Check No. 49	335.93										
	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	3,262								
20B			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	92								
			340.92	AVEK WA-Temp (T387)	0								
		Check No. 50	341.51										
			342.06	AVEK WA-Temp (T386)	0								
51	Check No. 51	342.07											
21	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0								
		Check No. 52	343.74										
			346.98	Palmdale WD (T276) Temp.	1,431								
	53		348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	32								
		Check No. 53	348.17										
22A			349.52	Palmdale WD (T394)	0								
	54	Check No. 54	350.25										
	55	Check No. 55	352.70										
	56	Check No. 56	354.76										
	57		354.97	AVEK WA- Delivered through Littlerock Creek ID (T278)	0								
			354.97	Palmdale WD (T276)	0								
			354.97	Palmdale WD (T391)	0								
	58	Check No. 57	356.93										
			357.60	AVEK 95th Street East (T279)	99								
			357.72	AVEK 96th Street East (T280)	0								
			359.76	AVEK East Side Treatment Plant (T281)	307								

1/ Conveyance of non-project water "Nickel" water.

2/ Butte County TBLA transfer water to Palmdale WD.

**Table 31. Governor Edmund G. Brown California Aqueduct**  
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

**June 2009**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	Rec.	Local	Flexible Withdrawal	Article 56C	Other		
	No.	Structure	Mile										
22B	58	Pearblossom Pumping Plant	360.61		51,122	26	1,889	10	109	1/ 0			
	59	Check No. 59	366.09										
	60		366.50		AVEK Big Rock Siphon (T368) 0								
	61	Check No. 60	373.94										
	61	Check No. 61	379.00										
	62	Check No. 62	384.26										
	63	Check No. 63	389.20		Mojave Water Agency White Road 24" & 42" (T282) 26								
	64	Check No. 64	395.10										
	65	Check No. 65	400.32										
	66		401.10		Mojave Water Agency Morongo 24" & 42" (T284) 1,889								
23	Check No. 66		403.41										
	Mojave Siphon		405.58		Las Flores Ranch Exchange 0								
24	Mojave Siphon Powerplant		405.65										
	Silverwood Lake	407.65			MWA CS DAM (T288) 0								
					California State Park Silverwood (T288) 10								
					Crestline-Lake Arrowhead WA State Project Water (T289) 0								
			407.70		Non-Project Water (T289) 109								
25	San Bernardino Intake Tunnel												
26A	Devil Canyon Powerplant		412.73										
	Devil Canyon Afterbay Control Structures	412.88			MWD-Rialto (T292) 0								
					MWD-Rialto (T293) 4,473								
					Desert Water Agency Transfer (T293) 3,136								
					Coachella Valley WD Transfer (T293) 7,594								
					MWD EBX-1 (T290) 0								
					MWD EBX-1 (T291) 5,444								
					East Branch Extension 3,840								
					San Bernardino Valley MWD 0								
28G	Santa Ana Valley Pipeline	425.46											
28H		433.06			MWD-SC Box Springs (T295) 6,643								
		440.05			MWD-SC Perris Bypass Pipeline (T296) 14,908								
28J	Lake Perris	442.00			MWD-SC (T297) 139								
		443.44			MWD-SC 54" & 78" (T299) 71								
					Calif. State Park Lake Perris Parks & Rec. (T298) 140								
					MWD Total: 81,465	65,457	0	0	12,337	0	3,671		

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ Includes 1,208 AF to San Gabriel Valley MWD, 1,930 AF to San Bernardino Valley MWD, and 702 AF to San Gorgonio Pass WA.

**Table 32. Water Quality At Selected SWP Locations**

June 2009

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO <sub>3</sub>	36	80	78	76	93	91	83	80	82
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.002	0.003	0.002	0.002	0.003	0.003	0.004
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	0.03	0.19	0.19	0.38	0.38	0.31	0.32	0.26
Calcium	mg/l	8	14	24	21	29	28	26	26	28
Chloride	mg/l as C	1	16	55	53	110	111	93	91	77
Chromium	mg/l as C	<0.001	<0.001	0	<0.001	<0.001	0	<0.001	<0.001	0
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Fluoride	mg/l	<0.1	NR	NR	NR	NR	NR	<0.1	NR	NR
Hardness	mg/l	34.000	84.000	116.000	106.000	151.000	143.000	127.000	126.000	115.000
Iron	mg/l	0	0	0	<0.005	<0.005	<0.005	<0.005	<0.005	0.0
Lead	mg/l as CaCO <sub>3</sub>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.000	12.000	14.000	13.000	19.000	18.000	15.000	15.000	11.000
Manganese	mg/l	<0.005	0.008	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0	NR	0	1	1	1	1	0
Organic Carbon, Dissolved	mg/l	NR	3.800	3.900	4.000	4.000	4.100	3.600	3.700	3.000
Organic Carbon, Total	mg/l as N	NR	4.10	4.00	4.00	4.10	4.20	3.70	3.80	3.20
Phosphate-Ortho	mg/l as P	<0.01	0.14	NR	0.11	0.07	0.08	NR	0.07	0.02
Phosphorus-Total	mg/l	0.01	0.22	NR	0.13	0.08	0.11	0.09	0.08	0.02
Selenium	mg/l	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/l	3	20	43	40	78	75	65	64	62
Specific Conductance	µS/cm	81	257	441	416	656	634	550	534	506
Sulfate	mg/l	2	18	45	40	54	55	49	47	54
Total Dissolved Solids	mg/l	55	144	248	229	370	368	315	317	295
Turbidity	NTU	4	45	12	7	5	6	5	8	1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

**Table 33. Water Quality At Selected Delta Stations**

**June 2009**

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millisiemens/cm										Cl in mg/l
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	6.19	4.32	10,417	14,888	9,855	0.47	2.36	0.25	0.25	0.21	0.21	0.42	0.43	0.45	25
2	6.28	4.29	10,571	14,703	9,988	0.52	2.18	0.23	0.25	0.22	0.21	0.40	0.42	0.47	25
3	6.34	4.36	10,460	14,469	10,002	0.54	2.46	0.21	0.26	0.22	0.21	0.41	0.42	0.45	25
4	6.58	4.39	10,511	14,159	9,902	0.57	2.82	0.23	0.26	0.23	0.22	0.40	0.43	0.44	25
5	6.40	4.32	10,097	13,686	9,767	0.59	2.83	0.23	0.26	0.24	0.22	0.39	0.44	0.44	25
6	6.37	4.35	10,234	13,070	10,177	0.56	2.74	0.23	0.26	0.23	0.22	0.40	0.42	0.43	27
7	6.57	4.51	10,325	12,470	10,146	0.61	3.11	0.26	0.27	0.24	0.22	0.40	0.40	0.43	27
8	6.67	4.62	10,734	11,946	10,355	0.61	3.37	0.29	0.27	0.24	0.23	0.40	0.40	0.44	26
9	6.67	4.67	11,190	11,568	10,782	0.64	3.30	0.29	0.27	0.24	0.23	0.41	0.38	0.44	25
10	6.47	4.55	10,921	11,269	10,809	0.59	2.71	0.24	0.26	0.24	0.23	0.46	0.39	0.46	25
11	6.32	4.49	10,407	11,046	10,499	0.53	2.47	0.23	0.26	0.23	0.23	0.46	0.40	0.47	24
12	5.94	4.35	9,226	10,836	9,547	0.50	2.23	0.22	0.25	0.23	0.23	0.49	0.42	0.48	24
13	5.58	4.26	8,037	10,653	8,739	0.47	2.13	0.23	0.24	0.22	0.23	0.45	0.41	0.48	42
14	5.49	4.11	7,327	10,485	8,082	0.44	2.08	0.22	0.24	0.22	0.23	0.46	0.41	0.49	42
15	5.68	4.09	7,198	10,347	7,765	0.42	2.22	0.22	0.24	0.21	0.23	0.47	0.44	0.50	25
16	6.07	4.16	6,462	10,201	7,178	0.43	2.61	0.22	0.24	0.22	0.23	0.44	0.44	0.49	25
17	6.25	4.23	5,877	10,038	7,083	0.49	3.27	0.22	0.24	0.22	0.23	0.40	0.44	0.46	25
18	6.57	4.31	5,062	9,835	6,732	0.57	3.84	0.25	0.24	0.23	0.23	0.33	0.47	0.43	25
19	6.47	0.00	4,893	9,627	6,678	0.00	5.54	0.33	0.25	0.24	0.23	0.32	0.45	0.39	24
20	7.03	4.73	4,648	9,396	6,309	1.27	6.22	0.48	0.27	0.27	0.23	0.31	0.43	0.37	29
21	7.06	4.61	5,358	9,198	7,245	1.27	5.92	0.53	0.28	0.26	0.23	0.32	0.45	0.37	25
22	7.00	4.52	5,931	9,048	7,802	1.28	5.75	0.51	0.30	0.28	0.24	0.35	0.48	0.39	24
23	7.04	4.56	5,648	8,898	7,513	1.53	6.18	0.67	0.33	0.32	0.24	0.32	0.46	0.37	22
24	6.99	4.66	5,345	8,728	7,393	1.78	6.88	0.78	0.37	0.34	0.25	0.28	0.42	0.37	23
25	6.81	4.51	6,903	8,609	8,008	1.66	7.06	0.81	0.41	0.34	0.26	0.34	0.44	0.36	22
26	6.31	4.31	7,360	8,499	8,764	1.35	5.70	0.59	0.43	0.30	0.26	0.42	0.46	0.41	22
27	5.78	4.10	7,869	8,372	9,313	1.15	4.96	0.48	0.45	0.29	0.27	0.46	0.49	0.47	25
28	5.73	3.93	7,757	8,280	9,072	1.03	4.58	0.40	0.46	0.27	0.27	0.44	0.49	0.47	26
29	6.06	4.16	6,759	8,157	9,510	1.07	5.00	0.38	0.48	0.29	0.28	0.39	0.45	0.41	22
30	6.20	4.26	7,099	8,021	10,414	1.26	5.44	0.39	0.49	0.31	0.28	0.32	0.42	0.37	22

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

**June 2009**

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 17, 2009	Metolachlor	0.10
California Aqueduct At Banks Pumping Plant	June 16, 2009	Metolachlor Simazine	0.20 0.02
O'Niell Forebay Outlet Check 13	June 17, 2009	Simazine	0.02
Delta Mendota Canal At McCabe Road	June 17, 2009	Metolachlor Simazine	0.20 0.02
California Aqueduct Near Kettleman City (Check 21)	June 16, 2009	Simazine	0.02
California Aqueduct At Near Highway 119 (Check 29)	June 17, 2009	Simazine	0.02
California Aqueduct at Tehachapi Afterbay (Check 41)	March 17, 2009	Diuron	1.65
California Aqueduct At Devil Canyon Headworks	June 17, 2009	Simazine	0.06

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)

June 2009

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	3,897,289	0	40,497	42,866	291,568	291,568	242,686	523
2	7,321,402	0	38,414	39,377	309,016	309,016	296,662	511
3	7,837,170	11	38,401	40,242	388,720	388,720	401,513	1,844
4	8,709,822	0	43,991	40,566	305,248	305,248	470,287	3,270
5	8,621,745	0	45,655	43,405	362,512	362,512	460,088	2,674
6	6,870,039	11	41,260	40,702	355,736	355,736	463,283	2,669
7	6,257,966	0	37,466	40,812	333,904	333,904	446,784	2,783
8	6,066,390	0	38,796	38,423	256,136	256,136	457,782	2,521
9	5,673,998	0	41,356	40,978	282,792	282,792	420,096	827
10	5,608,240	11	40,058	39,506	303,992	303,992	443,151	1,586
11	5,750,074	22	33,969	39,523	291,144	291,144	456,656	2,090
12	7,795,865	0	37,765	44,224	287,848	287,848	468,112	2,244
13	5,797,297	0	33,525	41,729	289,400	289,400	446,290	2,957
14	5,442,580	11	33,961	43,260	340,640	340,640	435,369	2,960
15	6,135,349	0	34,439	42,922	297,872	297,872	483,687	3,449
16	1,757,228	0	36,044	41,928	298,152	298,152	486,822	5,278
17	4,947,987	0	38,503	42,748	256,032	256,032	450,536	2,054
18	6,179,173	11	43,001	44,982	300,968	300,968	450,435	1,849
19	6,942,386	0	41,873	44,014	321,856	321,856	458,356	1,595
20	6,129,035	0	37,703	41,494	320,728	320,728	376,932	903
21	6,071,670	11	40,833	44,134	333,408	333,408	326,806	434
22	7,531,810	0	43,993	47,393	334,160	334,160	221,344	447
23	7,645,737	22	42,230	46,714	219,504	219,504	183,011	462
24	7,302,306	9,053	32,945	36,207	146,656	146,656	314,063	458
25	5,821,024	11	37,017	45,591	101,400	101,400	399,837	450
26	6,789,321	11	35,951	43,120	101,432	101,432	423,697	512
27	7,796,734	0	35,034	43,171	204,896	204,896	445,399	531
28	7,620,921	11	38,996	44,855	119,672	119,672	428,756	537
29	10,665,765	0	23,986	21,104	645,824	645,824	445,286	524
30	10,517,089	0	19,386	11,098	967,424	967,424	456,880	490
Total	201,503,412	9,196	1,127,048	1,217,088	9,368,640	9,368,640	12,260,606	49,432

**Table 36. San Luis Field Division Energy Data**

(in kWh)

June 2009

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,200,639	776,639	2,113,639	913,639	0	0
2	1,162,602	738,602	1,987,436	627,436	0	0
3	1,053,483	485,483	2,189,110	821,110	0	0
4	1,313,208	745,208	2,022,779	654,779	0	0
5	1,564,926	996,926	2,094,994	726,994	0	0
6	1,513,545	945,545	2,076,701	708,701	0	0
7	1,484,852	908,852	2,039,554	987,554	0	0
8	1,174,957	606,957	1,958,737	818,737	0	0
9	1,342,011	774,011	1,840,146	968,146	5,082	5,082
10	1,225,402	657,402	1,468,775	1,132,775	0	0
11	1,382,100	814,100	1,461,790	561,790	0	0
12	1,392,930	824,930	1,921,458	785,458	0	0
13	1,359,320	791,320	1,892,088	756,088	0	0
14	1,194,236	618,236	1,855,876	719,876	0	0
15	1,064,453	496,453	1,602,634	466,634	0	0
16	1,092,212	524,212	1,633,643	553,643	88	88
17	1,293,062	725,062	1,288,991	600,991	4,994	4,994
18	1,244,750	676,750	1,428,900	740,900	0	0
19	1,304,327	736,327	1,466,553	778,553	0	0
20	1,559,444	991,444	1,491,633	803,633	0	0
21	1,457,422	881,422	1,680,129	648,129	0	0
22	1,054,646	486,646	1,603,492	571,492	440	440
23	1,422,892	854,892	1,859,825	827,825	693	693
24	1,562,604	994,604	1,343,859	703,859	715	715
25	1,477,893	909,893	1,186,152	386,152	660	660
26	1,573,977	1,077,977	1,764,169	804,169	682	682
27	1,654,582	1,158,582	1,920,820	960,820	385	385
28	1,654,060	1,150,060	1,877,436	965,436	0	0
29	1,360,190	864,190	1,826,737	914,737	0	0
30	1,394,446	898,446	1,628,396	716,396	0	0
Total	40,535,171	24,111,171	52,526,452	22,626,452	13,739	13,739

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Plant Energy Load Data**

(in kWh)

June 2009

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	36,840	93,390	53,740	50,502	54,210	863,125	832,071	1,718,893	6,132,807
2	47,782	120,072	50,395	46,649	50,610	879,727	853,862	1,789,018	6,436,962
3	37,148	90,273	38,869	35,221	39,595	797,504	800,945	1,651,177	5,877,603
4	43,046	108,385	70,552	67,198	70,003	1,037,297	962,475	2,017,752	7,054,965
5	47,628	116,953	47,899	44,426	50,445	954,616	928,880	1,919,973	6,891,021
6	41,310	103,208	45,683	41,716	45,507	1,197,131	1,252,412	2,651,946	9,724,428
7	39,398	95,914	48,667	44,890	49,970	1,579,651	1,729,190	3,759,613	13,999,473
8	42,731	103,805	36,082	32,721	36,476	983,632	1,024,379	2,205,852	8,302,446
9	48,899	120,805	53,987	50,090	54,818	1,051,218	1,048,438	2,169,992	7,694,784
10	44,472	109,195	49,184	45,614	49,249	917,219	901,611	1,896,840	6,927,849
11	37,765	90,673	52,528	48,184	53,086	982,402	1,028,579	2,127,895	7,546,284
12	43,691	107,854	54,765	50,782	55,484	979,551	959,769	2,016,872	7,219,368
13	45,375	118,433	53,864	50,228	54,361	1,049,431	998,985	2,163,271	7,800,192
14	46,956	121,582	64,272	61,303	67,055	901,039	996,255	2,214,630	8,252,307
15	41,581	106,076	54,184	50,118	54,822	1,006,900	1,043,878	2,234,045	8,100,162
16	47,036	118,272	50,294	45,417	48,850	934,742	842,333	1,742,510	6,331,230
17	47,166	119,808	58,034	55,289	58,664	924,034	889,157	1,817,695	6,484,779
18	51,830	129,458	63,796	57,846	63,855	916,439	895,111	1,883,871	6,641,973
19	39,945	97,748	69,268	65,430	70,250	897,840	830,482	1,700,556	6,068,628
20	45,476	112,912	54,211	49,801	54,583	1,348,380	1,294,646	2,789,567	10,313,622
21	51,141	125,992	69,767	64,916	70,960	1,369,690	1,540,739	3,339,358	12,460,014
22	35,553	90,701	50,986	47,577	51,908	790,875	771,626	1,620,190	5,834,403
23	39,703	99,636	57,686	53,522	58,888	1,234,928	1,169,987	2,488,750	8,836,938
24	43,990	112,355	59,533	55,062	59,583	1,246,916	1,237,745	2,584,109	9,266,535
25	50,068	124,610	59,518	56,025	61,561	1,206,972	1,217,622	2,604,602	9,508,455
26	53,742	128,810	53,102	49,658	52,629	1,341,364	1,318,615	2,817,859	10,428,399
27	58,015	140,143	82,142	76,431	82,637	1,308,980	1,330,695	2,816,242	10,152,702
28	48,558	116,267	63,822	60,365	63,764	1,625,227	1,631,014	3,557,917	13,099,158
29	46,614	113,559	53,697	49,485	55,203	968,740	1,008,590	2,149,873	8,022,834
30	48,938	116,329	65,609	61,638	65,480	1,093,455	1,129,441	2,362,558	8,476,812
Total	1,352,397	3,353,218	1,686,136	1,568,104	1,704,506	32,389,024	32,469,532	68,813,426	249,887,133

**Table 38. Southern Field Division Energy Data**

(in kWh)

June 2009

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	515,902	946,859	1,992,000	100,777	497,534	889,402	57,471	29,369	36,987	424
2	575,958	947,076	1,992,000	88,563	517,618	1,135,123	47,786	38,670	49,234	3,602
3	477,364	958,404	1,992,000	96,443	422,171	876,513	17,649	39,270	49,015	3,060
4	619,437	971,670	2,472,000	116,449	526,409	1,113,762	39,732	39,070	49,158	387
5	575,913	972,087	2,472,000	100,641	629,254	1,307,369	61,458	33,893	43,128	379
6	614,289	971,187	2,472,000	175,920	986,260	1,962,674	65,330	31,274	40,095	367
7	1,007,675	972,618	2,472,000	295,990	1,518,036	1,801,797	160,437	32,883	41,972	366
8	349,435	971,586	1,992,000	291,546	1,188,657	1,769,026	142,619	28,825	34,102	383
9	460,919	972,073	1,992,000	213,072	1,025,714	2,039,903	92,833	30,190	34,863	3,126
10	363,576	973,082	1,512,000	200,234	1,087,430	1,866,474	101,874	29,323	34,843	2,795
11	392,380	972,375	1,512,000	198,395	958,237	1,812,070	104,423	28,890	34,713	373
12	363,829	971,156	1,512,000	185,923	1,086,470	2,201,111	131,312	28,284	34,820	403
13	381,124	973,585	1,512,000	275,197	1,299,794	2,085,441	136,726	28,044	34,829	392
14	407,506	972,490	3,024,000	245,915	1,258,974	1,900,524	134,115	27,806	34,829	396
15	405,923	973,078	1,392,000	235,094	1,292,448	1,928,659	132,175	35,336	45,469	392
16	437,018	525,132	1,392,000	170,650	805,568	2,028,605	29,147	38,333	49,111	3,404
17	435,515	948,310	1,392,000	53,645	222,674	1,794,533	53,905	39,697	49,174	3,018
18	406,800	948,855	1,392,000	153,139	696,103	2,020,171	71,433	35,525	42,799	482
19	381,055	948,483	1,392,000	203,111	1,086,256	2,168,793	124,184	33,051	40,608	470
20	505,576	947,733	1,392,000	286,000	1,534,311	2,216,979	169,772	29,854	37,058	429
21	635,905	946,529	1,392,000	324,602	1,937,280	1,863,899	232,204	30,645	38,522	424
22	265,881	947,735	1,512,000	265,865	1,444,807	2,364,954	153,468	28,106	33,902	460
23	350,204	946,729	1,512,000	270,387	1,332,488	2,077,491	131,020	29,176	34,890	3,381
24	393,060	945,810	1,512,000	285,995	1,570,792	2,287,833	182,319	32,963	34,905	2,985
25	351,862	947,118	1,512,000	327,184	1,781,131	2,316,363	131,578	37,908	34,942	502
26	335,864	947,503	1,512,000	348,914	1,880,374	2,893,766	211,331	37,541	35,019	478
27	412,320	947,963	1,512,000	329,751	1,911,073	2,595,532	227,389	37,362	35,046	524
28	645,238	946,657	1,512,000	329,143	2,018,184	2,352,197	223,407	37,409	35,068	579
29	344,193	946,345	1,512,000	279,245	1,300,202	2,527,202	152,717	45,384	45,788	628
30	349,871	946,468	1,512,000	268,935	1,365,505	2,961,248	170,368	47,825	49,310	3,503
Total	13,761,592	28,306,696	52,272,000	6,716,725	35,181,754	59,159,414	3,690,182	1,021,906	1,194,199	38,112

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.